



भारत का राजपत्र

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No. 51] NEW DELHI, SATURDAY, DECEMBER 23, 1989 (PAUSA 2, 1911)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2

[PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
Notifications and Notices issued by the Patent Office relating to Patents and Designs]

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Calcutta, the 23rd December 1989

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Telegraphic address "PATENTOFIC".

1-387 GI/89

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Telegraphic address "PATENTOFIS".

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"NIZAM PALACE", 2nd M.S.O. Building,
5th, 6th and 7th Floor,
234/4, Acharya Jagadish Bose Road,
Calcutta-700 020

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

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एकस्य तथा अभिकल्प

कलकत्ता, दिनांक 23 दिसम्बर 1989

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में अवस्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार ज्ञान के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोडो हस्टेट
तीसरा तल, लोअर परले (पश्चिम),
बम्बई-400 013.

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य क्षेत्र
एवं संघ शासित क्षेत्र गोंडा, दमन तथा दिव
एवं दादरा और नगर हवेली ।

तार पता—“पेटेंटोफिस” ।

पेटेंट कार्यालय शाखा,
एकक सं. 401 से 405, तीसरा तल,
नगरपालिका बाजार भवन,
सरस्वती मार्ग, करोलबाग,
नई दिल्ली-110 005.

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर,
पंजाब, राजस्थान तथा उत्तर प्रदेश
राज्य क्षेत्रों एवं संघ शासित क्षेत्र
चंडीगढ़ तथा दिल्ली ।

तार पता—“पेटेंटोफिस” ।

पेटेंट कार्यालय शाखा,
61, बालाबाह रोड,
मद्रास-600 002.

आंध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य क्षेत्र
एवं संघ शासित क्षेत्र पाण्डिचेरी, लक्षद्वीप,
मिनिक्काय तथा एमिनिदिव द्वीप ।

तार पता—“पेटेंटोफिस” ।

पेटेंट कार्यालय (प्रधान कार्यालय),
निजाम पैलेस, द्वितीय बहुतलीय कार्यालय भवन,
5, 6 तथा 7वां तल,
234/4, आचार्य जगदीश बोस रोड,
कलकत्ता-700 020.

भारत का व्यवशेष क्षेत्र ।

तार पता—“पेटेंटोफिस” ।

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में
अपेक्षित सभी आवेदन पत्र, सूचनाएं, विवरण या अन्य प्रलेख
पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किए
जायेंगे ।

शुल्क :—शुल्कों की अदायगी या तो नकद की जायेगी अथवा
उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य धनावेश अथवा
डाक आवेश या जहाँ उपयुक्त कार्यालय अवस्थित है; उस स्थान
के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट
अथवा चेक द्वारा की जा सकती है ।

APPLICATION FOR PATENTS FILED AT THE
HEAD OFFICE 234/4, ACHARYA JAGADISH BOSE
ROAD, CALCUTTA-20

The dates shown in the crescent brackets are the dates
claimed Under Section 135, of the Patents Act, 1970.

The 10th November, 1989

942/Cal/89. Emitec Gesellschaft Für Emissionstechnologie
Mbh. A method of forming a drive system.

943/Cal/89. Mitsuba Electric Manufacturing Co. Ltd. Coil
apparatus.

The 15th November, 1989

944/Cal/89. Samsung Electron Devices Co. Ltd. Device
of measuring crt characteristics.

The 16th November, 1989

945/Cal/89. Westinghouse Electric Corporation. Improve-
ments in or relating to electrical circuit breaker
handle locking apparatus.

946/Cal/89. The University of Melbourne. Monoclonal
antibodies. (Convention dated 17th November,
1988) (Australia).

947/Cal/89. Cff Gmbh Verfahrenstechnik Maschinenbau.
Filter separator for separating a composite fluid.

948/Cal/89. Anette Kupka. Automatic filter press.

949/Cal/89. E. I. Du Pont De Nemours & Company. Puri-
fication of saturated halocarbons.

950/Cal/89. Hitachi Construction Machinery Co. Ltd.
Bent axis type variable displacement hydraulic
machine.

The 17th November, 1989

951/Cal/89. Mohammad Taghi Naderi. Spectacle for im-
proving binocular vision.

952/Cal/89. (1) Institut Khimichskoi Fiziki Akademii Nauk
Sssr, (2) Mezhotraslevoi Nauchno-Tekhnicheskoy
Kompleks "Mikrokhirurgia Glaza". Intraocular
lens and a polymer composition for making
same.

953/Cal/89. Metallgesellschaft Aktiengesellschaft. Process of
recovering sulfur from sulfide materials which
contain thermally releasable sulfur.

954/Cal/89. Mitsui Toatsu Chemicals, Incorporated. Weed
control compositions containing drechslera spp.
or metabolite thereof and weed control methods
using drechslera spp or metabolite thereof.

955/Cal/89. American Cyanamid Company. Pyrrole Carbo-nitrile and Nitro-Pyrrole insecticidal, Acaricidal and Molluscicidal Agents and methods for the preparation thereof.

956/Cal/89. Krupp Widia GmbH. Cutting insert and the procedure for its production.

957/Cal/89. Texaco Development Corporation. Liquid degaser in an ebullated bed process.

958/Cal/89. Mollandse Signaalapparaten B.V. Pulse radar apparatus.

ional dated 11th August, 1986]

The 20th November, 1989

959/Cal/89. Siemens Aktiengesellschaft. Method for operation of an electrical power circuit breaker.

960/Cal/89. Lummus Crest Inc. Inhibition of coke formation during vaporization of heavy hydrocarbons.

961/Cal/89. D'Andrea S.p.A. Device for the automatic engagement of the feed movement and of the return movement of the tool slide of a boring head.

962/Cal/89. Kabushiki-Kaisha Yamamoto-Seisakusho. Apparatus for collecting oil and fat and the collection method thereof.

963/Cal/89. Redeco Ag. Method for making a self-supporting flexible hose. (Convention dated June 26, 1989) (Australia).

APPLICATION FOR PATENTS FILED AT THE
PATENT OFFICE BRANCH, MUNICIPAL MARKET
BUILDING, 3RD FLOOR, KAROL BAGH,
NEW DELHI-5

The 23rd October, 1989

969/Del/89. Oil & Natural Gas Commission. "A process for the preparation of chrome free lignosulphonate".

970/Del/89. Steel Authority of India Ltd. "An improved process of manufacturing sheet steel for forming LPG cylinders".

971/Del/89. BP Chemicals Ltd. "Treatment of catalyst particles". (Convention date 30th September, 1986) (U.K.)

[Divisional date 19th January, 1987].

972/Del/89. Genetics Institute, Inc. "A process for increasing the rate of carbon dioxide and ethanol production of yeast". [7th November, 1986].

973/Cal/89. Akorlund & Rausing Licens Aktiebolag. "Press plunge having a separate press ring".

974/Del/89. PPG Industries Inc. "A process for the preservation from thermal deterioration of the side walls of a vessel employed in the manufacture of liquid glass batch material".

[Divisional date 22nd December, 1986].

975/Del/89. PPG Industries Inc. "A process for the preservation from thermal deterioration of the side walls of a vessel employed in the manufacture of liquid glass batch material".

[Divisional date 11th January, 1987].

The 24th October, 1989

976/Del/89. The Procter & Gamble Company. "Liquid fabric softener".

977/Del/89. Samsung Electron Devices Co. Ltd. "Cleaning device for sealing portion of the panel of color picture tube".

978/Del/89. Samsung Electron Devices Co. Ltd. "Filming solution spreading device for color cathode ray tube".

979/Del/89. Samsung Electron Devices Co. Ltd. "Panel of color cathode ray tube".

980/Del/89. Shell Internationale Research maatschappij B.V., Alkane polymerization process and catalyst compositions therefor". (Convention date 26th October, 1988) (U.K.).

981/Del/89. Exxon Chemical Patents Inc. "Method for utilizing triethylaluminum to prepare an alumoxane support for an active metallocene catalyst".

982/Del/89. STC Components (Proprietary) Ltd. "Consecutive timers".

The 25th October, 1989

983/Del/89. The lubrizol Corporation. "Lubricants containing salts of hydroxyalkane phosphonic acids".

984/Del/89. EDAP International. "An ultrasonic treatment device using a focussing and oscillating piezoelectric ceramic".

985/Del/89. Petersen Manufacturing Co. Inc. "Quick-action bar clamp".

The 26th October, 1989

986/Del/89. UTD Inc. "Freight transportation system". (Convention date 15th November, 1988) (Canada).

987/Del/89. Institut Strukturnoi Makiokinetiki Akademii Nauk SSSR. "Method for preparing refractory porous material, article from this material and process for making said article".

The 27th October, 1989

988/Del/89. Council of Scientific & Industrial Research. "A process for conversion of natural gas to ethylene".

989/Del/89. De Beers Industrial Diamond Division (Proprietary) Ltd. "Wire saw with diamond cutting edge".

990/Del/89. UOP. "Isomerization catalyst & method for the use thereof".

APPLICATIONS FOR PATENTS FILED AT THE
PATENT OFFICE BRANCH, 61, WALLAJAH ROAD,
MADRAS-600 602

The 30th October, 1989

789/Mas/89. William P. Parker. Display device.

790/Mas/89. G & H Technology, Inc. Electrical Overstress pulse protection.

The 31st October, 1989

791/Mas/89. Fives-Cail Babcock. Process of drying and grinding wet mineral materials and plant for implementing this process.

792/Mas/89. Thomas Kaiser. A data processing system input device.

793/Mas/89. BASF Aktiengesellschaft. Improving the storability of molten cyclohexanone oxime.

794/Mas/89. Owens-Illinois Closure Inc. Tamper indicating package.

795/Mas/89. Tecumseh Products Company. Suction line connector for hermetic compressor.

796/Mas/89. Sepacor, Inc. Process for preparing optically active glycidate esters.

The 1st November, 1989

- 797/Mas/89. Minnesotā Mining and Manufacturing Company. Fluorinated, acrylamide-functional monomers.
- 798/Mas/89. National Research Development Corporation. Contact lens cast moulding and packaging. (November 2, 1988; United Kingdom).
- 799/Mas/89. Henkel Kommanditgesellschaft auf Aktien and Baroid Limited. The use of selected ester oils in drilling fluids, particularly for the offshore development of oil and gas sources.
- 800/Mas/89. Henkel Kommanditgesellschaft Auf Aktien and Baroid Limited. The use of selected ester oils in drilling fluids particularly for the offshore development of oil and gas sources.
- 801/Mas/89. Deutsche Babcock Werke Aktiengesellschaft Eluidized bed furnace. (September 25, 1989; Canada).
- 802/Mas/89. Maschinenfabrik Rieter AG. A device for extracting fibre flocks from textile fibre bales. (Divisional to Patent Application No. 35/Mas/86).
- 803/Mas/89. International Development Research Centre. Process control using intelligence-based systems.

The 2nd November, 1989

- 804/Mas/89. Minnesota Mining and Manufacturing Company. Abrasive product having binder comprising an aminoplast resin.
- 805/Mas/89. Merlin Gerin. Magnetic trip device with wide tripping threshold setting range.
- 806/Mas/89. Hari Sen Gupta. An attachment to a vacuum cleaner for wet cleaning.
- 807/Mas/89. Hari Sen Gupta. An attachment for a vacuum cleaner for wet and dry cleaning.

The 3rd November, 1989

- 808/Mas/89. Tinytop Appliances Private Limited. Novel built in self priming centrifugal pump.
- 809/Mas/89. Le Roy G Hagenbuch. Apparatus and method responsive to the on-board measuring of haulage parameters of vehicle.
- 810/Mas/89. Rosink GmbH + Co. KG. Can Coiler.

AMENDMENT PROCEEDINGS UNDER SECTION 57

(1)

Proposed amendments under Section 57 of the Patents Act, 1970, in respect of Patent No. 164028 (207/Mas/85) as advertised in the Gazette of India, dated 29-7-89 have been allowed.

(2)

Proposed amendments under Section 57 of the Patents Act, 1970, in respect of Patent No. 163294 as advertised in the Gazette of India dated 12-8-1989 have been allowed.

(3)

The amendments proposed by Basf Lacket & Farben Aktiengesellschaft of Am Neumarkt 30, 2000 Hamburg 70, Federal Republic of Germany in respect of Patent application No. 159907 (507/D/83) as advertised in Part III, Section 2 of the Gazette of India dated 18-03-1989 have been allowed.

RENEWAL FEES PAID

142566	143486	144380	144730	146124	146172	146438
146637	146879	146982	147744	148028	148043	148672
148895	149029	149087	149213	149562	149682	150026
150087	150374	150548	150598	150729	150764	150786
150804	151002	151015	151218	151330	151628	151664
151714	151807	151866	151867	151882	151883	151955
152279	152405	152462	152490	152623	152715	152919
153339	153648	153729	153730	153812	153948	153990
153991	154038	154739	154780	154906	154942	155044
155045	155057	155268	155438	155470	155473	155756
155758	155846	155925	155935	156175	156176	156177
156178	156223	156224	156361	156362	156364	156390
156438	156525	156851	156938	156950	157284	157291
157364	157427	157584	157585	157586	157627	157649
157767	157937	158004	158031	158160	158207	158355
158391	158393	158495	158510	158734	158758	158782
158798	158829	159080	159083	159087	159171	159531
159691	160005	160006	160036	160620	160718	160823
161082	161142	161143	161145	161146	161147	161588
161591	161595	161596	161676	161838	162037	162038
162302	162430	162596	162637	162638	162656	162846
162866	163023	163223	163245	163251	163329	163357
163496	163499	163651	163654	163663	163725	163729
163794	163869	163871	163874	163876	163962	163969
163975	163976	164056	164057	164062	164063	164077
164115	164186	164324	164328	164346	164404	164427.

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

स्वीकृत सम्पूर्ण विनिर्देश

1 Claim

एतद्वारा यह सूचना दी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के हक्क कोई व्यक्ति, इसको निर्गम की तिथि से 4 महीने या अग्रिम ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम 1972 के तहत विहित प्रपत्र 14 पर आवेदित एक महीने की अवधि से अधिक न हो के भीतर कभी भी नियंत्रक, एकत्र को ऐसे विरोध की सूचना विहित प्रपत्र 15 पर दे सकते हैं। विरोध सम्बन्धी लिखित वास्तव्य; उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

“प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तराष्ट्रीय वर्गीकरण के अनुरूप हैं।”

नीचे सूची गत विनिर्देशों की सीमित संख्या में मुद्रित प्रतियां, भारत सरकार बुक डिपो, 8 किरण शंकर राय रोड, कलकत्ता में विक्रय हेतु यथा समय उपलब्ध होंगी। प्रत्येक विनिर्देश का मूल्य 2/- रु. है। (यदि भारत के बाहर भेजे जाएं तो अतिरिक्त डाक खर्च)। मुद्रित विनिर्देश की आपूर्ति हेतु मांग पत्र के साथ निम्नलिखित सूची में यथा प्रदर्शित विनिर्देशों की संख्या संलग्न रहनी चाहिए।

रूपांकन (चित्र आरेखों) की फोटो प्रतियां यदि बोर्ड हों; के साथ विनिर्देशों को टंकित अथवा फोटो प्रतियों के आपूर्ति पेटेंट कार्यालय, कलकत्ता, द्वारा विहित लिप्यान्तरण प्रभार (उक्त कार्यालय से पत्र व्यवहार द्वारा सुनिश्चित करने के उपरान्त उसकी अवायवी पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों की जोड़कर उसे 4 में गुणा करके; (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 4/- रु. है) फोटो लिप्यान्तरण प्रभार का परिकलन किया जा सकता है।

CLASS : 190-B

165701

Int. Cl. : F 01 d 5/00.

A PROCESS FOR MAKING TURBINE BLADES BY DIRECTIONAL SOLIDIFICATION.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventor : MCHAEI ANTHONY BURKE.

Application No. 609/Cal/1985 filed August 21, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

A process for making :

turbine blades for combustion turbines by directional solidification;

said turbine being of the type wherein a mold containing molten metal is cooled in a controlled fashion so that solidification occurs slow enough to allow directional solidification beginning at the airfoil end;

characterized by the steps of monitoring said solidification and when the solidification reaches the interface between the airfoil section and a root section starting magnetic mixing of the remaining molten metal at approximately the beginning of solidification of said root section and then increasing the rate of cooling of said blade to a rate faster than that at which directional solidification occurs, whereby a blade is produced with a directionally solidified airfoil section and a fine grained root section and without a substantially inhomogeneous portion at the interface between the airfoil and root sections.

Compl. specn. 9 pages

Drg. 2 sheets

CLASS : 150-G; 151-E, G.

165702

Int. Cl. : B 03 c 11/00; E 21 b 7/00, 7/12.

PROCESS AND DEVICE FOR INSTALLING A PIPELINE IN AN UNDERWATER ENVIRONMENT AND PIPELINE THUS INSTALLED.

Applicant : SPIE-BATIGNOLLES, OF 33 QUAI DE DION BOUOTON 92814 PUTEAUX, FRANCE.

Inventor : ROBERT VILAIN.

Application No. 634/Cal/1985 file September 04, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims

Process for installing a pipeline in an underwater environment characterised by the following steps :

positioning a plurality of guidance means, for guiding the pipeline, spaced out from each other along a substantially straight-line direction going from land towards the open sea, placing them at a pre-determined height above the seabed which height is sufficient to avoid any contact between the pipeline and the seabed;

connecting said guidance means by cables to the seabed and suspending them from floats placed at a pre-determined depth which depth is sufficient to minimize storm effects;

successively engaging another cable in said plurality of guidance means;

linking said pipeline to said another cable and pulling said another cable towards the open sea so that said

pipeline is engaged successively in the various guidance means and is supported by the latter.

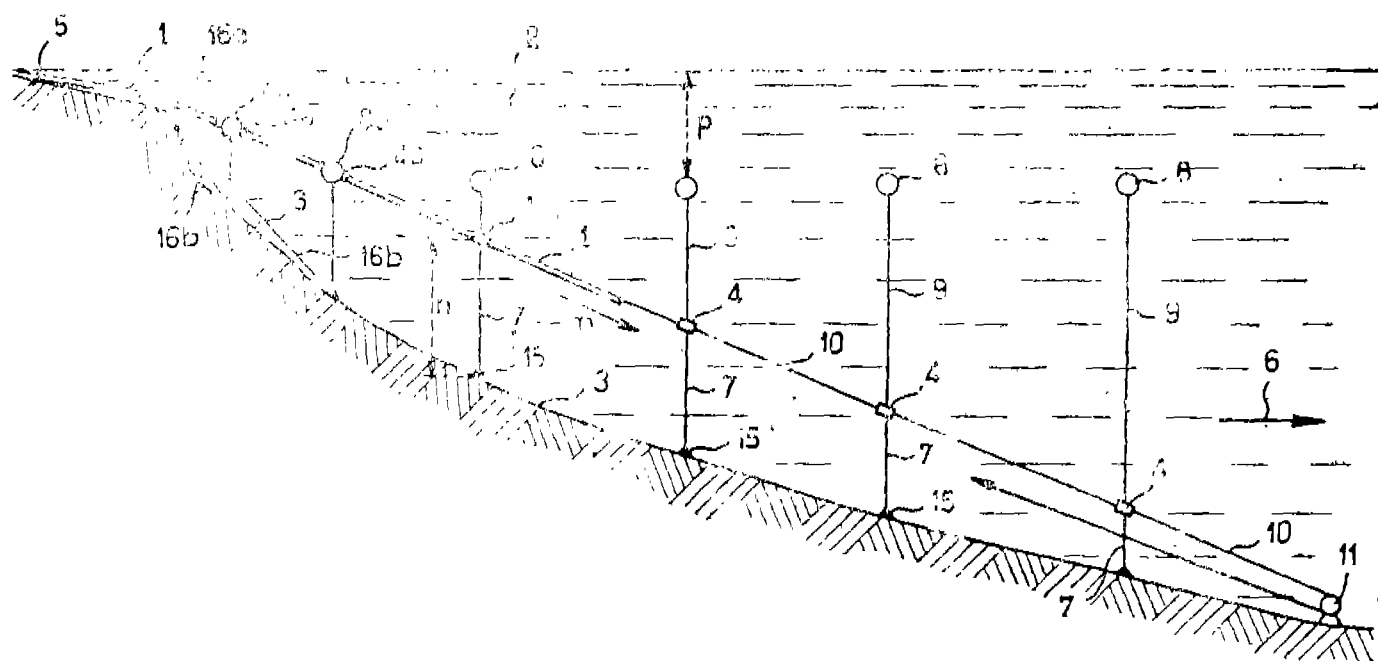


Fig. 1

Compl. specn. 14 pages

Drg. 4 sheets

CLASS : 176 C

165703

Int. Cl. : F 22 d 1/00; 3/00; 5/00; 11/00;
F 22 b 33/00.

A DEVICE FOR DETERMINING THE MAXIMUM SPRAY FLOW LIMIT OF AN ATTEMPERATOR OF A BOILER.

Applicant : THE BABCOCK & WILCOX COMPANY,
AT 1010 COMMON STREET, P.O. BOX 60035, NEW
ORLEANS, LOUISIANA 70160, U.S.A.

Inventor : JAMES LEE BARKAN.

Application No. 689/Cal/1985 filed October 01, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A device for determining the maximum spray flow limit of an attempurator of a boiler having a spray flowthereon, comprising :

- a first temperature sensor for sensing the temperature of inlet steam to the attempurator;
- a pressure sensor for measuring pressure of steam to the attempurator;
- a first constant value block for containing a value corresponding to a selected operating temperature;
- a first difference taking function block connected to said first constant block in said temperature sensor for taking the difference between actual inlet temperature of steam to the attempurator and the selected operating temperature;

a second constant block connected to said inlet first difference function block for multiplying the output of said first difference function block by a selected which is a characteristic of the attempurator;

a first function block connected to said pressure sensor for generating a multiplication factor which is a characteristic of said attempurator and is a function of the inlet steam pressure;

a first multiplication block connected to said second constant value block and said first function block for generating a temperature correction for enthalpy;

a second function block connected to said pressure sensor for generating a steam enthalpy for steam elected operating temperature as a function of the inlet steam pressure;

a first summing block connected to said multiplication block and said second function block;

a third function block connected to said pressure sensor for generating a limit enthalpy function for saturated steam;

a second difference taking block connected to said summing block and said third function block for generating the difference between actual steam enthalpy and steam enthalpy for saturated steam;

a third difference taking function block connected to said summing block and said enthalpy measuring means for taking the difference between the actual steam enthalpy and enthalpy of the spray flow;

a division block connected to said second and third difference taking block for dividing an output of said second function block by an output of said third function block; and

a second multiplication block connected to said division block and having an input for receiving a value corresponding to a load on the attenuator and for multiplying a product from the division block by the load to generate the maximum spray flow limit.

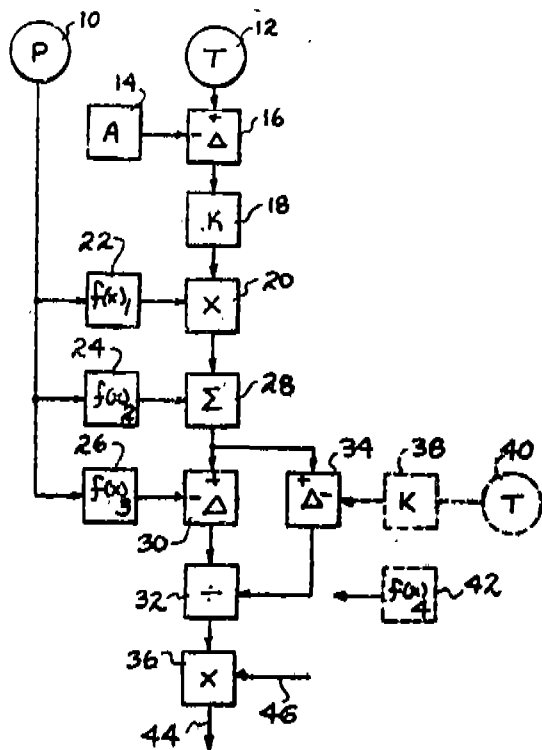


Fig. 1

Compl. specn. 12 pages

Drg. 2 sheets

CLASS : 40 F

165704

Int. Cl. : B 01 j 19/00.

MULTIPLE HEARTH REACTOR FOR THERMAL TREATMENT OF CARBONACEOUS MATERIALS.

Applicant & Inventor : EDWARD KOPPELMAN, OF 4424 BERGAMO DRIVE, ENCINO, CALIFORNIA 91316, UNITED STATES OF AMERICA.

Application No. 834/Cal/1985 filed November 25, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A multiple hearth apparatus for thermal treatment of organic carbonaceous materials under pressure comprising:

a pressure vessel defining a chamber containing a plurality of superimposed annular hearths including a series of upper hearths angularly inclined downwardly toward the periphery of said chamber and a series of lower hearths spaced therebelow;

inlet means in the upper portion of said vessel for introducing a moist carbonaceous feed material under pressure onto the uppermost therebelow;

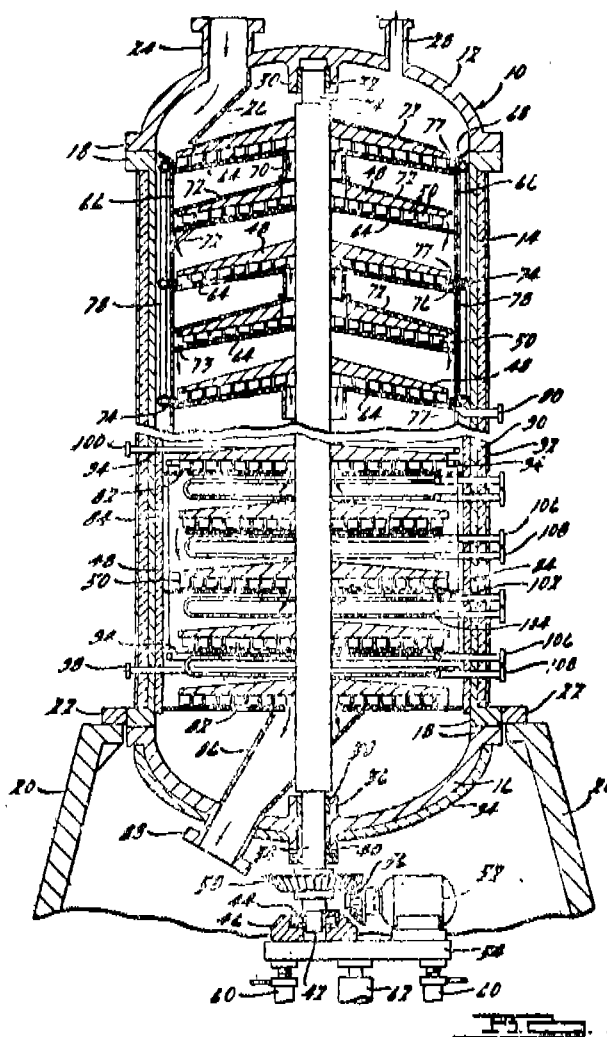
rabble means disposed above each hearth for transferring the feed material radially along each hearth in an alternating inward and outward direction to effect a downward cascading of the feed material from one hearth to the next hearth therebelow;

outlet means in the upper portion of said vessel for withdrawing volatile gases under pressure from said chamber;

baffle means overlying the upper hearths and rabble means for directing the upward countercurrent flow of volatile gases adjacent to the feed material and in heat transfer relationship therewith;

drain means disposed in communication with said upper hearths for withdrawing any liquid thereon under pressure from said chamber;

heating means in said chamber disposed in the region of each of the lower hearths for independently heating the feed material thereon to a controlled elevated temperature for a period of time sufficient to vaporise at least a portion of the volatile substance therein to form volatile gases and a thermally restructured product and discharge means in the lower portion of said vessel for withdrawing the thermally restructured product under pressure from said chamber.



Compl. specn. 28 pages

Drg. 3 sheets

CLASS : 47-C

165705

Int. Cl. : C 10 b 39/14; 39/18.

COKE QUENCHING CAR.

Applicant : OTTO INDIA PRIVATE LIMITED, F/16, SECTOR-2, ROURKELA-769006, ORISSA, INDIA; DR. C. OTTO & COMP., GMBH, OF POSTFACH 10 1850, D 4630, BOCHUM 1, WEST GERMANY AND FIRMA CARL STILL GMBH. & CO. KG., OF POSTFACH 101851, D 4350 RECKLINGHAUSEN, WEST GERMANY.

Inventors : (1) HANS-JURGEN KWASNIK, (2) HANS-GUNTER PIDUCH, (3) AUGUST LUCAS.

Application No. 620/Cal/1986 filed August 14, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

19 Claims

A quenching car for receiving a carbonized batch from an oven chamber of a battery of coke ovens while the quenching car stands still, and which is capable of travelling along the battery to a point under a quenching tower of the battery at which the batch can be discharged, comprising :

running gear means for movement in a travel direction along a battery of coke ovens, wherein the quenching car is provided with;

a coke receptacle mounted on said travel gear means for movement along the battery, said coke receptacle being in the form of a rectangular box having a slanted bottom with a bottom discharge, a pair of end walls spaced from each other in a travel direction and a front wall connected to said end walls, said front walls, end walls and slanted bottom defining an inner space, said front wall extending parallel to the travel direction and hav-

ing a lower opening extending a full length of said front wall in the travel direction between said end walls;

a flap pivotally mounted to said coke receptacle for swinging outwardly of said inner space to uncover said lower opening and inwardly toward said inner space for closing said lower opening;

a grate-like lining connected to an inner surface of said flap facing inwardly of said inner space with said flap closing said lower opening;

an operating rod having one end pivotally mounted to said flap and being movable to swing said flap outwardly for uncovering said lower opening, said operating rod having an opposite end;

first operating means comprising a carriage capable of movement on wheels transversely to the direction of travel of the car, the movement being accomplished by activating a short-stroke piston-cylinder set which is attached on one end to an I-beam of the car and on the other end to the carriage connected to said receptacle and operatively connected to said opposite end of said operating rod, said first operating means being activatable for swinging said flap to a first open position wherein said flap is spaced by a small pass-through area from said slanted bottom, said grate-like lining being still disposed over said discharge opening for permitting a flow of quenching water out of said inner space through said lining while retaining a carbonized batch in said inner space; and

second operating means, comprising a long-stroke piston-cylinder set having a piston connected to a toggle joint with a pivot point attached thereto, connected to said receptacle and operatively connected to said opposite end of said operating rod, said second operating means being activatable to independently swing said flap into a second open position fully uncovering said lower opening, said second operating means being activatable independently of said first operating means, said second position of said flap permitting the batch to slide off said slanted bottom through said lower opening.

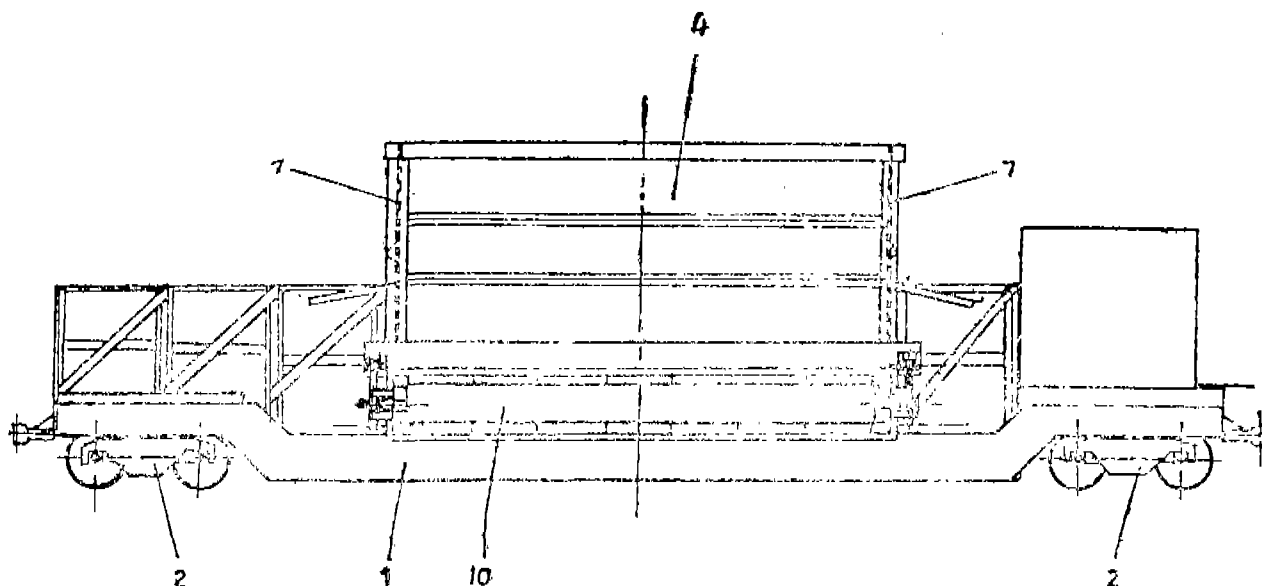


Fig. 1

CLASS : 6-B, &c.

165706

CLASS : 71-E; 102-B

165707

Int. Cl. : F24f 11/00.

AIR CONDITIONING SYSTEM AND MORE PARTICULARLY CONDENSER FAN ORIFICE FOR A ROOM AIRCONDITIONER.

Applicant : CARRIER CORPORATION, AT CARRIER PARKWAY, P.O. BOX 4800, SYRACUSE, NEW YORK-13221, U.S.A.

Inventors : (1) RICHARD DENNIS LANG, (2) JAMES EDWARD NAPOLITANO.

Application No. 664/Cal/1986 filed September 02, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

In an air conditioning system of the type having a heat exchanger and a fan positioned to direct the flow of air thereover, with both the heat exchanger and the fan being contained in a housing with a wall surrounding the fan periphery to form an orifice gap therebetween, an improved orifice wall assembly comprising :

a first wall attached to the inner side of the housing in surrounding relationship with said fan, said first wall extending radially inwardly toward said fan to thereby reduce said orifice gap and diminish the recirculation of air around the fan periphery; and

a second wall attached to the inner side of the housing, said second wall being axially disposed downstream from and in parallel relationship with said first wall, in surrounding relationship with the fan, and extending radially inwardly to create a gap between said first and second walls to further diminish the recirculation of air around the periphery of the fan.

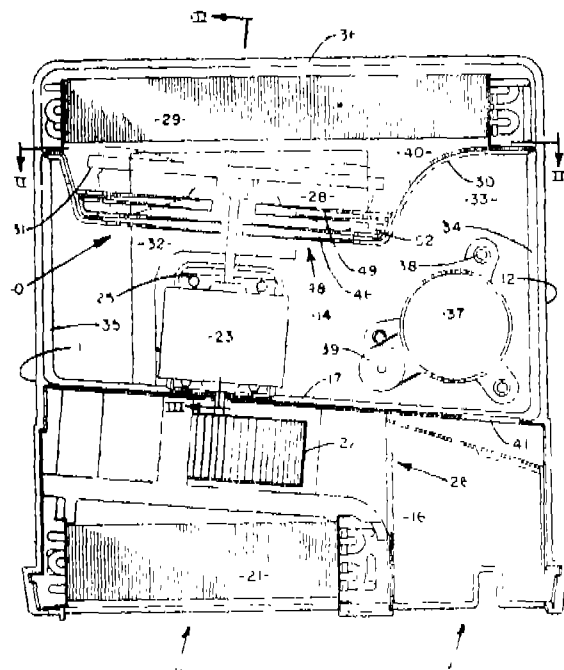


Fig. 1

Compl. specn. 9 pages
: 387G1/89

Fig. 2 sheet

PILOT HYDRAULIC SYSTEM FOR OPERATING DIRECTIONAL CONTROL VALVE.

Applicant : HITACHI CONSTRUCTION MACHINERY CO. LTD., OF 6-2, OHTEMACHI-2-CHOME, CHIYODAKU, TOKYO, JAPAN

Inventors : (1) TOICHI HIRATA, (2) GENROKU SUGIYAMA, (3) SHINICHI SATOH.

Application No. 669/Cal/1986 filed September 08, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A pilot hydraulic system comprising :

a directional control valve having at least one pilot chamber for controlling the operation of a hydraulic actuator; and

a pilot valve connected through a pilot line to said pilot chamber of said directional control valve for operation thereof, characterised in that a flow control valve is provided in said pilot line, said flow control valve comprising means for allowing a free flow a hydraulic fluid from said pilot valve to said directional control valve while limiting flow of the hydraulic fluid from said directional control valve to said pilot valve

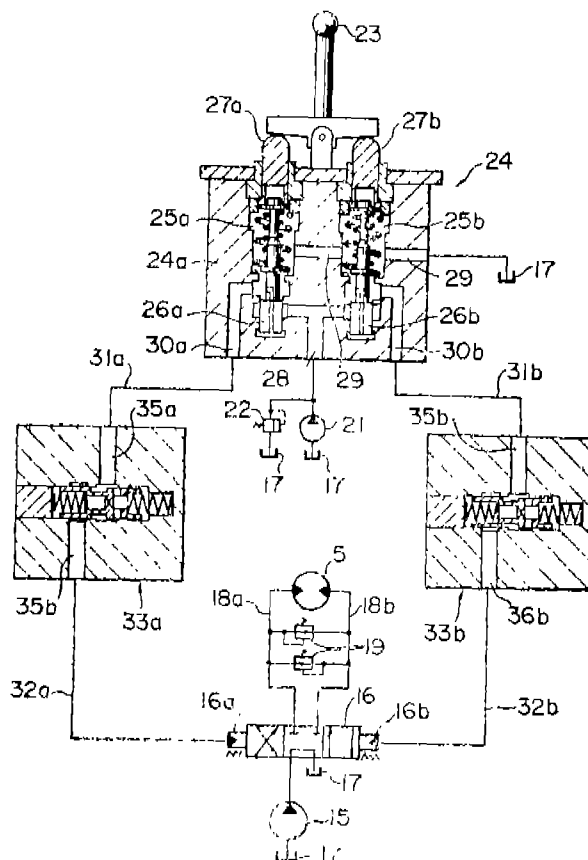


Fig. 3

Compl. specn. 30 pages

Fig. 4 sheets

CLASS : 40-F

165708

8 Claims

Int. Cl. : B 67 5/56.

INSTALLATION FOR THE PREPARATION OF LIQUID COMPOSITIONS.

Applicant : ISOVER SAINT-GOBAIN, OF 18 AVENUE D'ALSACE, F 92400 COURBEVOLE, FRANCE.

Inventor : (1) JEAM-MARC COLOMBANI, (2) MICHEL HARDOUIN.

Application No. 672/Cal/1986 filed September 09, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

Installation for the preparation of liquid compositions intended to be sprayed onto sheets or felts of mineral fibres, the said compositions requiring the combination and mixing of a plurality of constituents which are themselves in the liquid state, in which the constituents are conveyed to a preparation receptacle (12) through one or a plurality of ducts (13) fewer in number than the constituents, each duct (13) being connected by one or a plurality of valves (10) to constituent supply means, each valve (10) controlling the sequential introduction of a constituent into a duct (13), a device of the mass-flow meter type being disposed on each duct (13) downstream of the valve (10), the prepared composition then passing from the preparation receptacle (12) to a utilising circuit.

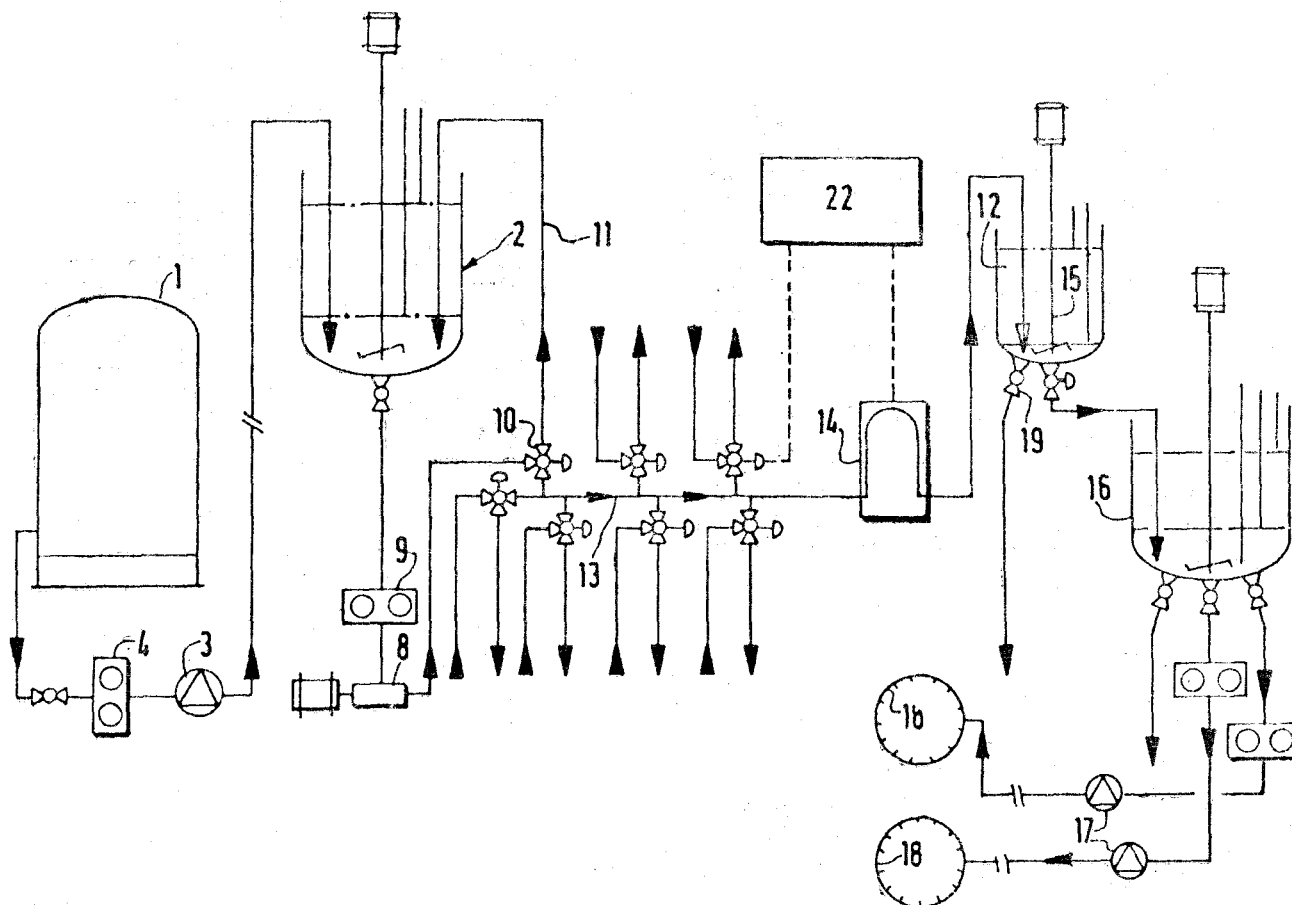


Fig. 2

Compl. specn. 24 pages

Drg. 2 sheet

Int. CLASS : F 02 f 5/00

165709

SEALING RINGS FOR A PISTON.

Applicant : SAMUEL HEATH & SONS PLC, LEOPOLD STREET, BIRMINGHAM B 12 O U J, ENGLAND.

Inventor : ALAN HENRY ORGAN.

Application No. 682/Cal/1986 filed September 12, 1986.

(Convention date september 13, 1985) (Great Britain) (No. 8522665).

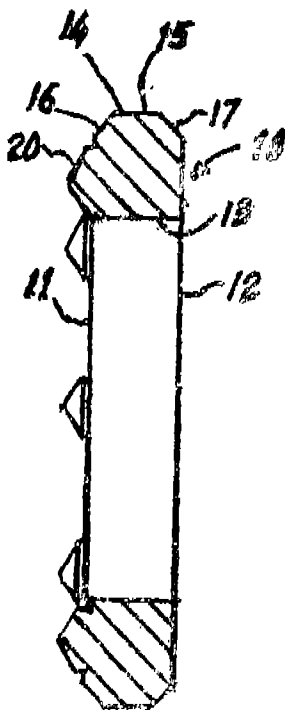
Appropriate office for opposition proceedings (Rule 4 Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A sealing ring for a piston, the sealing ring comprising axially directed projections one radially extending face at circumferentially spaced positions wherein—

the projections are of conical form, the inner face is of cylindrical form, the said inner face and each radially extending face meeting substantially at right angles; and

the outer face includes a central cylindrical surface and dhamfered portions adjacent to one or both radially extending faces.



Compl. specn 7 pages

Dwg. 2 sheets

CLASS : 47-C

165710

Int. Cl. : C 10 b 27/00.

A FILTER ASSEMBLY FOR A GAS SAMPLING SYSTEM.

Applicant : THE PABCOCK & WILCOX COMPANY,
AT 1010 COMMON STREET, P.O. BOX 60035, NEW
ORLEANS, LOUISIANA 70160, U.S.A.

Inventors : (1) GORDON DAVIES WOOLBERT, (2) ARNOLD DANIEL TURPIN, (3) MARSHALL HILTON COOPER.

Application No. 824/Cal/1986 filed November 14, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

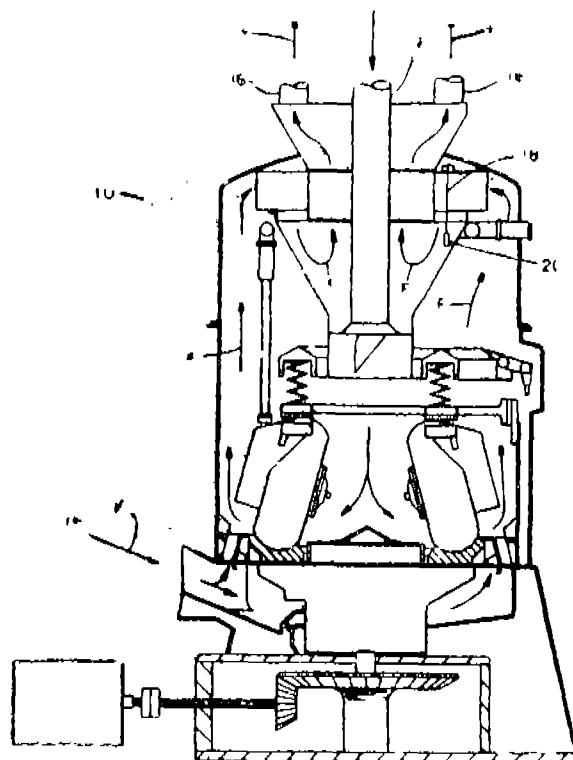
8 Claims

A filter assembly for a gas sampling system comprising:

a probe for withdrawing a sample of test gas from a sample area;

a filter attached to said probe for filtering the gas drawn into said probe; and

a filter shield assembly constituted by a plurality of inner and outer shields arranged concentrically to form an overlapping pattern around the filter, and operable to prevent direct impingement of said test gas anywhere on said filter.



Compl. specn. 12 pages

Dwg. 1 sheet

Int. CLASS: B 05 B 1/02

165711

SPRAY UNIT FOR SUPPLYING LIQUID FOR
DEGASSING INSTALLATION.

Applicant : STORK KETELS B.V., A DUTCH COMPANY, OF NO. 1, INDUSTRIEPLEIN, 7553 LL HENGELO, THE NETHERLANDS.

Inventors : (1) KREUWEL, JOHANNES GERARDUS,
(2) SCHIPPER, LAMBERT ANDRIES.

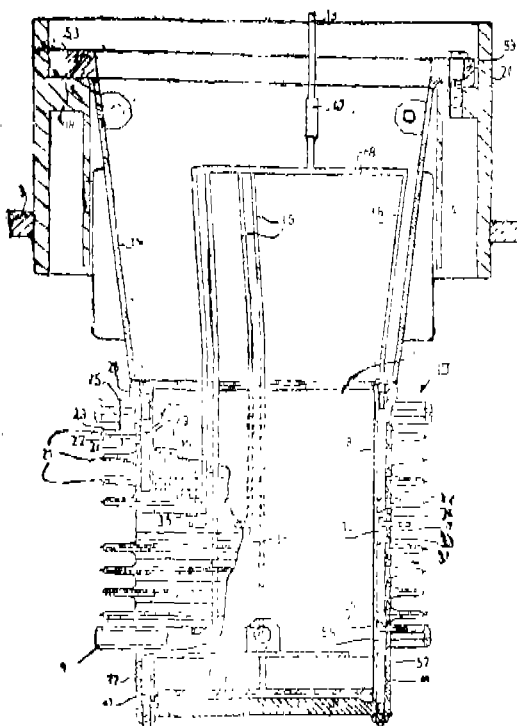
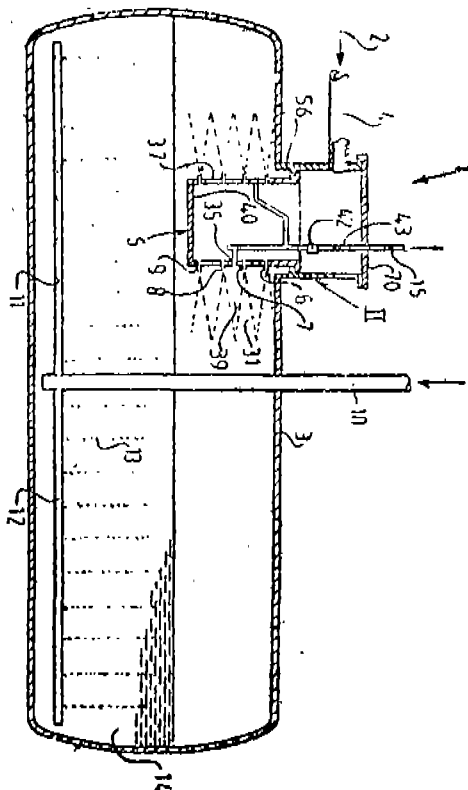
Application No. 25/Mas/86 filed January 16, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

Spray unit (5) for supplying liquid (2) for degassing in finely divided state, comprising a duct shaped liquid feed chamber (16) which is connectable to a supply (4) of the liquid (2) for degassing that is under pressure, whereby a casing of said liquid feed chamber (16) is provided with a plurality of sets of spray plates (24, 25) extending in circumferential direction of said casing and providing slit shaped spray apertures such that a number of intersecting spray surfaces are formed, in which a

ring (45) is placed at least between two sets of spray plates (24, 25) which bring about intersection spray surfaces (31) said ring having at least one gas passage (35) which is connected to a gas outlet line (36).



Int.-CLASS⁴: A 61 B 17/56

165712

A CARTRIDGE FOR USE IN A STAPLER FOR DRIVING GENERALLY U-SHAPED STAPLES.

Applicant : MINNESOTA MINING AND MANUFACTURING COMPANY, A CORPORATION OF THE STATE OF DELAWARE, OF 3M CENTER, ST. PAUL, MINNESOTA 55144-1000, U.S.A.

Inventors : (1) DOUGLAS RAYMOND MONGEON, (2) EDWARD PAUL SKWOR.

Application No. 105/Mas/86 filed February 14, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

3 Claims

A cartridge adapted for use in a stapler for driving generally U-shaped staples each comprising:

a central portion and two parallel leg portions projecting in the same direction from opposite ends of its central portion and having distal ends, which stapler comprises a housing having a passageway extending from an inlet opening to an outlet opening, said passageway being adapted to guide a single staple moved from the inlet to the outlet opening with the distal ends of its legs leading;

a driver having an end portion adapted to engage the central portion of said staple and being mounted on said housing for sliding movement between a load position with the driver spaced from the inlet opening to afford movement of one of the staples into the passageway, along said passageway with said end portion pushing the staple, to an eject position at which the end portion of the driver pushes the staple out of said outlet opening; and

drive means adapted to be manually activated for propelling said driver along said passageway from said load to said eject position to move said staple from said inlet to said outlet opening, said housing having a support wall having an inner surface defining a socket adapted to receive said cartridge at said inlet opening, said support wall also having an outer surface, a through opening between said inner and outer surfaces having a first opening portion and a second portion on one side of said first opening portion, said cartridge having a case;

a stack of staples within said case;

a follower on one side of said stack of staples and movable within said case with said stack of staples; and

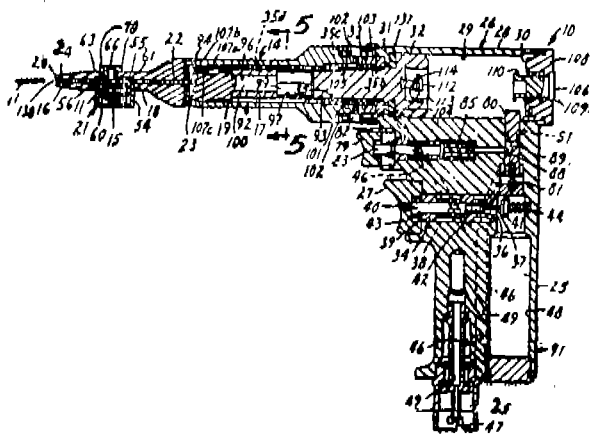
a spring for biasing said follower and said stack of staples;

characterized in that said case (54) comprises a guide wall (55) defining an inner surface (56) and side walls (57) projecting normal to said inner surface (56), said side walls (57) having opposed transverse openings (58) at said inner surface (56), said guide wall (55) being adapted to be received in said socket (59) with said inner surface (56) defining a portion of said passageway (16) at said inlet opening (18) and said transverse openings (58) aligned with said passageway (16) so that said driver (22) movable through said openings (58) and along said inner surface (56) between said load and eject positions;

said follower (60) is on the side of said stack of staples (11) opposite said passageway (16);

said spring (15) biases said follower (60) and staples (11) toward said inner surface (56); and

said cartridge (21) has a locking member (66) mounted on said guide wall (55) for rotation about an axis generally normal to said inner surface (56), projecting from the side of said guide wall (55) opposite said inner surface (56), having a spacing portion (68) of a first maximum radius extending from said guide wall (55) for a first predetermined distance equal to the distance between the inner and outer surfaces of said support wall (61) with said first maximum radius affording rotation of said spacing portion (68) within the first portion (64) of said opening (62), and having a locking portion with at least one lug (70) projecting beyond said maximum radius at the distal end of said spacing portion (68), adapted to pass through the second portion (65) of said opening (62) in a release position of said locking member (66) relative to said case (54) and having a surface adjacent said guide wall (55) adapted to engage the second surface of said support wall (61) at a position spaced from said release position of said locking member (66) to hold said cartridge (21) on said housing (14).



Compl. specn. 27 pages

Drg. 4 sheets

Int. CLASS⁴ : H 02 K 1/28

165713

A ROTOR FOR AN ALTERNATOR.

Applicants : (1) MUTHU RANGARAMANUJAM SRINIVASAN, (2) SRIDHARAN PATTABIRAMAN, (3) SRIDHARAN RANGANAYAKI AND (4) RANGA RAMANUJAM JEYALAKSHMI, ALL PARTNERS OF IGNITION PRODUCTS, A PARTNERSHIP FIRM DULY REGISTERED UNDER THE INDIAN PARTNERSHIP ACT, 1932, 17, ARYAGOWDA ROAD, MADRAS-600 033, TAMIL NADU, ALL INDIAN NATIONALS.

Inventor : SRIDHARAN PATTABIRAMAN.

Application No. 347/Mas/86 filed May 5, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

7 Claims

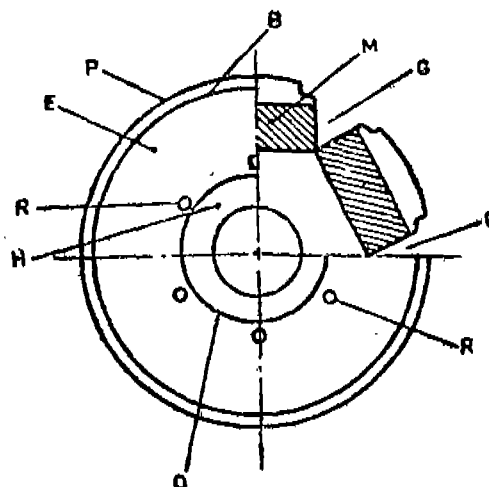
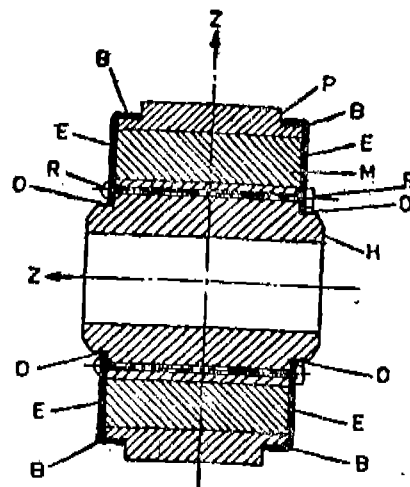
A rotor for an alternator comprising:

an assembly of a plurality of magnets radially mounted on a hub;

characterised by two end cups positioned respectively against the two faces of the assembly;

the bept periphery of each end cup securely gripping the magnets thus holding them in piece with respect to the hub;

each end cup having an opening at its centre for receiving the hub and being firmly fixed to the said assembly by fastening means.



Compl. specn. 9 pages

Drg. 1 sheet

Int. CLASS⁴ : D 04 B 3/02

165714

IMPROVED KNITTING NEEDLE.

Applicant & Inventor : THEOPHILUS ARPUTHARAJ DEVAGNANAM, AN INDIAN CITIZEN, OF SHAKUNTHALAM, NEEDLE INDUSTRIES P.O. 643 243, NILGIRIS, TAMIL NADU, INDIA.

Application and Provisional Specification No. 381/Mas/86 filed May 16, 1986.

Complete Specification left April 30, 1987.

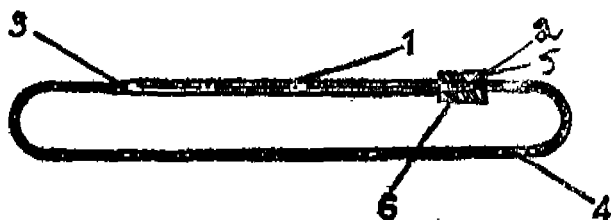
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

9 Claims

An improved knitting needle or knitting pin which comprises :

a rounded rigid elongate member of conveniently reduced length provided with the point at one end and having integrally connected to its other end a flexible extension;

the opposite end of said extension terminating in a knob-like stop member the length of said elongate member bearing to the length of said flexible extension a ratio of approximately 1 : 3.



Prov. specn. 10 pages

Drg. 1 sheet

Compl. specn. 11 pages

Drg. Nil

Int. CLASS⁴ : B 62 K 5/04; B 62 M 9/10

165715

IMPROVEMENTS IN OR RELATING TO TRANSMISSION DRIVES FOR BICYCLES, CYCLE RICKSHAWS OR THE LIKE.

Applicant & Inventor : (1) RAMESHCHANDRA PANDITRAO PALNITKAR AND (2) Mrs. MOHINI RAMESHCHANDRA PALNITKAR, BOTH OF 5-2-1026, J. N. ROAD, HYDERABAD-500 195, ANDHRA PRADESH, INDIA, INDIAN NATIONALS.

Application No. 995/Mas/86 filed December 19, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

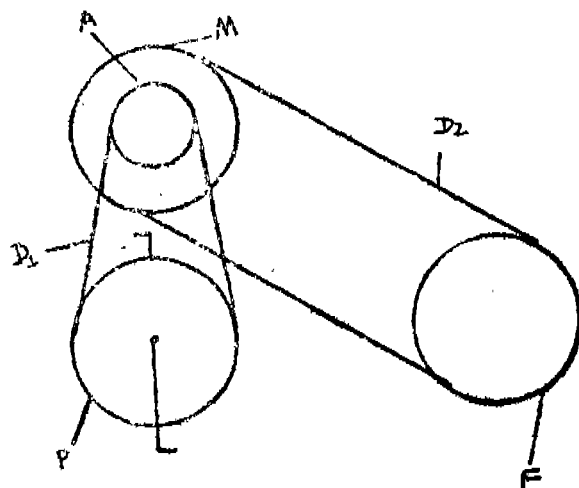
3 Claims

An improved transmission drive for a bicycle, cycle rickshaw or the like comprising :

a pedal wheel and a freewheel provided for the rear wheel thereof characterised by a main wheel to which an auxiliary wheel of smaller diameter is concentrically attached;

the auxiliary wheel being coupled by known means to the pedal wheel and the main wheel being coupled by like means to the freewheel;

the main wheel and the freewheel being of the same, or substantially the same, diameter.



Compl. specn. 5 pages

Drg. 1 sheet

Int. CLASS⁴ : C 07 K 15/26

165716

A PROCESS FOR PREPARING INTERFERON-GAMMA.

Applicant : KABUSHIKI KAISHA HAYASHIBARA SEIBUTSU KAGAKU KENKYUJO, OF 2-3, 1-CHOME, SHIMOISHII, OKAYAMA-SHI, OKAYAMA, JAPAN, A JAPANESE COMPANY.

Inventors : (1) MASASHI KURIMOTO, (2) MASAKAZU MITSUHASHI.

Application No. 533/Mas/87 filed July 24, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

3 Claims

A process for preparing interferon-gamma comprising :

culturing an established human myelomonocyte capable of producing interferon-gamma in a nutrient culture medium at a cell density of about 10^4 - 10^7 cells/ml with an inducer selected from the group consisting of phytohemagglutinin, concanavalin A, pokeweed mitogen, lipopolysaccharide, endotoxin, polysaccharide, bacterium and mixtures thereof at a temperature of about 20-40°C for about 4-10 days to produce interferon-gamma;

said established human myelomonocyte being a member selected from the group consisting of HBL-38 cell, HL-60 cell, KG-1 cell, ML-1 cell, ML-2 cell, ML-3 cell, THP-1 cell, U-937 cell and CTV-1 cell; and

recovering the accumulated interferon-gamma from the resultant culture by known means.

Compl. specn. 44 pages

Drg. 2 sheets

Int. CLASS⁴ : A 61 K 31/785

165717

A METHOD OF PREPARING A THERAPEUTIC COMPOUND.

Applicant : BATTELLE MEMORIAL INSTITUTE, OF 7, ROUTE DE DRIZE, CH-1227 CAROUGE-GENEVE, SWITZERLAND, AN AMERICAN INSTITUTE.

Inventors : (1) ANDREW MYERS, (2) DANIEL BICHON.

Application No. 543/Mas/87 filed July 29, 1987.

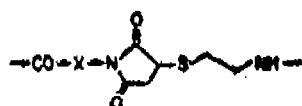
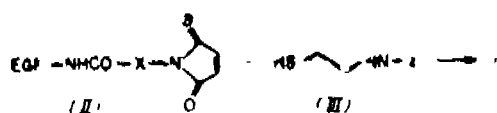
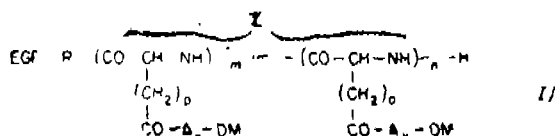
Int. CLASS¹: C 07 D 237/04

165718

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

2 Claims

A method of preparing a therapeutic compound of formula I of the accompanying drawings



in which P and o are 1 or 2;

A and A' represent chain extending amino-acid intermediate links of formula $-(NH-CHY-CO)-$ and x and y, which define the number of these links per molecule, can be zero or any integer from 1 to 20;

Y is an amino-acid rest;

DM and DM' represent one or more cytotoxic substances such as herein described covalently bound to the amino-acid carboxyl group through an amide or ester link but DM can also represent an OH of a free carboxyl;

EGF defines a homing vector for promoting malignant cell recognition and internalization therein;

R is a group of formula VI (shown in the drawing sheet) with X being selected from $-(CH_2)_x$ with from 1 to 4;

or m-phenylene; or m-cyclo-hexylene; or p-benzylene, or p-tetramethylene-phenylene;

m and n are integers of value sufficient to provide a molecular weight of 10,000 to 500,000 Da, the value of m/n being 1/10-1/2, by the reaction of a thiolcopolymer III with a 4-(N-maleiminido-butyrate derivative II in which formula Z designates the backbone polymer or copolymer indicated in formula I and the symbols EGF, X, m, n and DM are herein defined, the reaction being carried out by agitating the ingredients at low temperature, adding thiopropylsepharose to block the excess of III and finally chromatographing on sephadex gel to effect purification.

The products prepared according to this invention are useful in treating malignant diseases.

A PROCESS FOR PRODUCING PYRIDAZINONE DERIVATIVES.

Applicant : TEIKOKU HORMONE MFG. CO., LTD., A JAPANESE BODY CORPORATE, OF 5-1, 2-CHOME, AKASAKA, MINATO-KU, TOKYO, JAPAN.

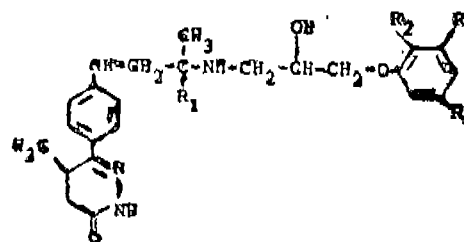
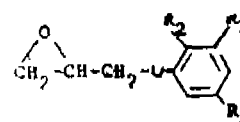
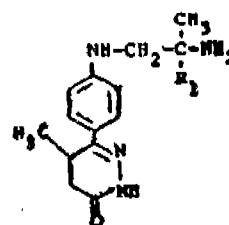
Inventors : (1) KIKUO YASUDA, (2) KENYU SHIBATA, (3) SEIJIRO HONMA, (4) TOSHIMI SEKI, (5) KOHICHI HASUMI, (6) TAKESHI MASUDA, (7) AKIHIRO IZUMI, (8) TSUTOMU ISHIMORI, (9) KOTARO GOTANDA, (10) MASAKO UNO.

Application No. 54/Mas/87 filed September 8, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

2 Claims

A process for producing a pyridazinone derivatives represented by the general formula (I) of the accompanying drawings :



wherein R_1 represents a hydrogen atom or a methyl group, either one of R_2 , R_3 and R_4 represents a hydrogen atom and the remaining two of them represent a lower alkyl group, a trifluoromethyl group, a halogen atom, a cyano group or a nitro group,

or a salt thereof, which comprises reacting a compound of the formula (V) of the accompanying drawings; wherein R_1 is as defined above,

with a compound of the formula (VI) of the accompanying drawings;

wherein R_2 , R_3 and R_4 are as defined above, in a solvent or in the absence of a solvent at a temperature ranging from room temperature to refluxing temperature of the reaction mixture, and if

desired, converting the resulting compound into its salt.

The compounds prepared according to this invention are useful as antihypertensive agents having excellent beta-blocking activity and vasodilating activity, but without inducing tachycardia.

Compl. specn. 39 pages

Drg. 2 sheets

Int. CLASS⁴: C 07 D 413/06

165719

A PROCESS FOR THE PREPARATION OF 1, 3-OXAZO-LIDINE-2-ONE DERIVATIVE.

Applicant : NIPPON CHEMIPHAR CO. LTD., OF 2-2-3, IWAMOTO-CHO, CHIYODA-KU, TOKYO, JAPAN, A JAPANESE COMPANY.

Inventors : (1) MITSUO MASAKI, (2) HARUHIKO SHINOZAKI, (3) MASARU SATOH, (4) NAOYA MORITOH, (5) KOICHI HASHIMOTO, (6) TOSHIRO KAMISHIRO.

Application No. 702/Mas/87 file September 30, 1987.

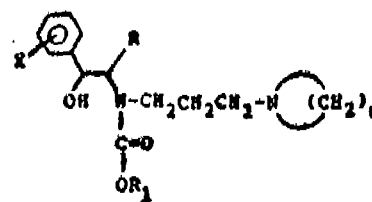
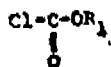
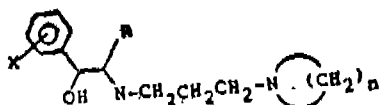
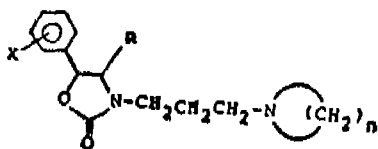
Divisional to Patent No. 162060 (382/Mas/85) Antedated to May 23, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

3 Claims

A process for preparing a 1, 3-oxazolidine 2-one derivative represented by the formula (I) of the accompanying drawings, wherein R is straight or branched alkyl group having 3 to 8 carbon atoms, X is a hydrogen or halogen atom or a lower alkyl or lower alkoxy group having 1 to 3 carbon atoms and n is an integer of 4 to 6, which comprises:

reacting a compound represented by the formula (II) of the accompanying drawings,



wherein R, X and n have the same meaning as defined above, with a compound represented by the formula (III) of the accompanying drawings,

wherein R₁ is a alkyl group having 1 to 3 carbon atoms to form a compound represented by the formula (IV) of the accompanying drawings, wherein R, R₁, X and n have the same meaning as defined above, at a temperature of between -5°C and +15°C for 0.5-3 hours in the presence of a basic agent selected from alkali metal hydroxide or carbonate and sodium alkoxide, and in the presence of a mixture of water and an inert organic solvent selected between ether, chloroform and toluene; and

cyclizing, the said compound of formula (IV) at a temperature of 100-140°C in the presence of a base selected from sodium methoxide, sodium ethoxide and aluminium isopropoxide, optionally in an aromatic hydrocarbon as solvent, after which, when desired, the obtained compound of the general formula (I) is transformed to an acid addition salt by a process known per se.

The compounds prepared according to this invention have excellent blocking effects against glutamic acid as well as neuraxial muscle relaxing effects.

Compl. specn. 49 pages

Drg. 3 sheets

Int. CLASS⁴: C 07 D 263/28

165720

PROCESS OF PREPARATION OF IMINOXAZOLIDINES.

Applicant : STAUFFER CHEMICAL COMPANY, OF WESTPORT, CONNECTICUT USA, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA.

Inventor : RAYMOND ANTHONY FELIX.

Application No. 745/Mas/87 filed October 16, 1987.

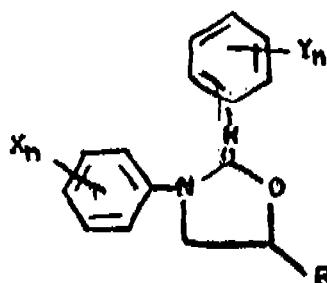
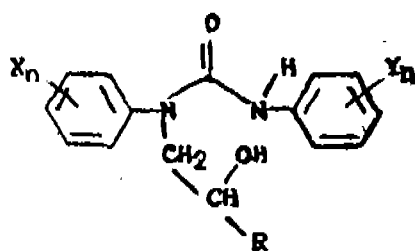
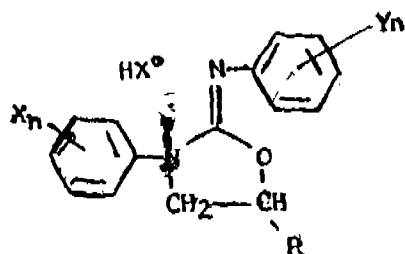
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

4 Claims

A process for the preparation of iminoxazolidines which comprises (a) reacting a urea alcohol of the formula 1 of the accompanying drawings, wherein :

X and Y are the same or different and are selected from the group consisting of hydrogen, cyano, halogen, acyl, alkyl, alkylthio, haloalkyl, haloalkyl-

thio, alkylsulfenyl, alkoxy, carboalkoxy and haloalkoxy wherein the alkyl groups have from 1 to 5 carbon atoms;



n is the integer 1 or 2; provided that when Y is hydrogen, at least one X is other than hydrogen; and

R is hydrogen or a lower alkyl group, having from 1 to 3 carbon atoms, preferably an ethyl group, with a dehydrating agent at ambient temperature and pressure to form an intermediate salt compound of the formula 2 of the accompanying drawings, wherein

X, Y, n and R are as defined above and X° is halogen or other salt forming anion and (b) reacting said salt compound with a base to form iminoxazolidines of the formula I of the accompanying drawings, wherein

n, X, Y and R are as previously defined.

The iminoxazolidines prepared according to this invention have good herbicidal and plant growth regulating activity.

REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 160985. M/s. Victor Products, of Ram Baug, S.V. Road, Malad (West), Bombay-400 064, Maharashtra, India, Indian Partnership Firm. "Hinges". 12th May, 1989.

Class 1. No. 161182. M/s. Trimurti Toys, of 357, Kalyandas Udyog Bhavan, Prabhadevi, Bombay-400 025, Maharashtra, India, Indian Partnership firm. "Toy". 11th July, 1989.

Class 3. No. 161001. Ambitious Gold Nib Mfg. Company Private Limited. An Indian Company. C-101-Phase-II, Mayapuri, Industrial Area, Area, New Delhi-110064-India. "PEN". 22nd May, 1989.

Class 3. No. 161006. Dr. Jose Thakattil, Physician, University Health Centre, Calicut University P.O. Kerala State, India, an Indian national. "Comb". 23rd May, 1989.

Class 3. No. 161085. V.I.P. Industries Limited, 88C Old Prabhadevi Road, Bombay-400025, Maharashtra State, India, "Brief Case". 16th June, 1989.

Class 3. No. 161112. Ideal Plastic Industries, 299, Noor Manzil, 3rd floor, Abdul Rehman Street, Bombay-3, State of Maharashtra, India, an Indian Partnership firm. "Toy Game". 28th June, 1989.

Class 3. No. 161259. MRF Limited, 826, Tarapore Towers, Anna Road, P.B. No. 3760, Madras-600 002, T. Nadu, India. "Tyre". 7th August, 1989.

Class 4. Nos. 161545 to 161548. IA Opala Glass Private Limited, an Indian Company of 10th Floor, Chitrakoot 230 A, A.J.C. Bose Road, Calcutta-700 020, West Bengal, India. "Plate". 19th October, 1989.

Class 12. No. 161061. Bharat Biscuit Co. (P) Ltd, 538, Jodhpur Park, Calcutta-700 068 (Registered Office), West Bengal, India. "Biscuit". 8th June, 1989.

EXTENTION OF COPYRIGHT Nil.

Compl. specn. 27 pages

Drg. 1 sheet

R. A. ACHARYA
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